APPENDIX A
DATA SUBMITTAL FORM

This page has been intentionally left blank.

Appendix A -- Data Submittal Form and Instructions

INSTRUCTIONS FOR COMPLETING RACT/BACT/LAER CLEARINGHOUSE INPUT FORM

1. **Company Name/Site Location:** Insert name, State, and County of the proposed facility. The address should be the location of the proposed facility not the address of the parent company unless they are the same.

2. **Plant/Facility Contact Information:** The is a person knowledgeable about the process at the plant or facility being permitted. Enter the name, telephone numbers (voice and fax), e-mail address, and mailing address of the plant contact. (A check box has been provided if the plant's and the plant contact's physical address are the same.)

3. **Permitting Agency Contact Information:** Indicate the person at the permitting agency to whom requests should be directed. This should be the person most capable of responding to factual questions concerning the source and processes subject to this permitting action. Please provide area code with the phone number, E-mail address, and conventional mail address.

4. **Physical Plant Location Information:** List the Universal Transverse Mercator (UTM) coordinates and UTM Zone of the facility being permitted. (This information is usually listed on United States Geological Survey (USGS) maps of the area where the facility is physically located.) The UTM coordinates are reported as Easting (X) and Northing (y). Easting indicate the horizontal or x coordinate within the UTM Zone for the source and Northing indicate the vertical or y coordinate within the UTM Zone for the source. The RBLC needs this information to determine proximity of the source to Class I areas (e.g., National Parks, Wilderness Areas, etc.). Please list the names of the Class One Areas within 100km of the source and Class One areas located within 100 to 250km of the source and their distance to the source.

5. **Permit/File Number:** This should be the identification number assigned by the agency that issued the permit.

   [In general, each permit with a different permit number should be entered separately. Most of the time one permit number will cover a number of processes/pollutants in a plant. Some agencies issue one permit number per process and this can lead to one plant (physical location) having many individual permit numbers. We ask that you enter each of these individual permits into it's own RBLC determination. Unfortunately, there is no way to quickly duplicate the facility information, so each will have to be typed in separately. You could list the separate permit numbers in the Facility Notes area of the determination, but this would mean that individuals that search the data base will not be able to find that

determination based on a Permit Number search. Since this type of search is done fairly often, we prefer that you list each individual permit number in it's own RBLC determination. Sorry.]

6. **ID Numbers and Codes:** Fill-in the requested AIRS identification number, if available, and the SIC/NAICS code.

   [We really must have the plant's SIC code! We are currently changing over to the North American Industrial Classification System (NAICS) so we have provided a place for it in the on-line data entry system.]

7. **Scheduling Information:** Permitting scheduling dates stored include:

   - receipt of application (estimated or actual)
   - final permit issued (estimated or actual)
   - start-up operation (estimated or actual)
   - compliance verification (estimated or actual)

   Please enter all of the scheduling information available.

   [Again, we really must have the "final permit issued" and "start-up operation" dates. In addition, we need the "compliance verification" date if you have it. If you don't list it, you will get a call back a year after the start-up date as a follow-up.]

8. **Plantwide Emissions/Emissions Increase Information:** Provide the name of each pollutant emitted in significant amounts and indicate the maximum amount of emissions (tons/year) that is anticipated for each pollutant (facility-wide, all processes) under this permit.

   [If you have a Plantwide Emission for a pollutant that is not in the drop down list, please list it in the Facility Notes area of the determination. We are planning to add some (but not all) pollutant names to the Plantwide Emission pollutant drop-down list, but at this time only PM, SOX, NOx, CO, and VOC are on the list.]

9. **Plantwide Information:** Please describe the facility being permitted. Descriptions should be summary and brief. Examples are as follows:

   Plant Level - In brief terms, indicate what kind of plant this is; for example: Integrated Steel Plant, Primary Aluminum Production, Publication Printing, Coil Coating, Power Plant, Oil Refinery; Coffee Roasting; Wastewater Treatment Plant; etc. A detailed narrative about the plant is not needed.

Source Level - List major processes that are part of the permitted source; for example: boiler, turbine, coke oven, rotogravure printing press, solid waste incinerator, coating line, lead smelter, air oxidation process, volatile organic liquid storage, etc. A detailed narrative about the process is not needed.

Fuel Type - List all fuels that will be used at this facility; for example: coal, # 2 distillate oil, process gas, etc. Again, a detailed narrative about the fuels used is not necessary.

Pollution Abatement Strategy **-** List all major pollution prevention and control systems/devices that will be used to reduce or eliminate air pollution; for example: powder coatings, low sulfur fuel, electrostatic precipitator, carbon adsorption, etc.

10. **Facility Notes:** This section is for the completion or elaboration of any of the above items where space was a problem. Also, any information that you feel other agencies should know about this determination should appear here. Notes are typically used for the following:

- More than one permit number [See note under Permit Number.]
- More detail on a particular process
- More than one contact person
- Further explanation regarding the designation of a source as new or modified
- Further explanation of the emission limit or the support documentation associated with setting the limit (i.e., limit based on design or stack test)

11. **Process Description:** List all processes subject to this permit by name (e.g., kiln, boiler) for which a throughput limit, operating limit, emission limit, control strategy, performance or equipment standard has been specified. Use additional pages as necessary. Additional information on a process may be placed in the Process Notes section.

Process name or process equipment should be listed using one of the process categories listed in Appendix C (Detailed Listing of Proposed Process Categories). A descriptor may be added behind the generic category name. For example,

Boiler, coal-fired, 3 each
Kiln, 3 each
Conveyors, coal/limestone
Furnace, arc

Boiler, recovery
Boiler, power
Engines, gas-fired

12. **Process Type Code:** A code assigned to each process (see Appendix B) used to categorize determinations.

    [We really need this so please use the drop-down list. Do not use the codes that end in “000". The “000" code are category codes. Also, try and avoid using the codes that end in “999" as they are catch-all categories. If you do not enter an RBLC Process code, we will try to figure it out. If we can’t, you will get a phone call.]

13. **SCC Code:** This code is the standard source classification for processes used throughout the Office of Air at EPA.

    [We really need this so please use the drop-down list. If this is not listed, we will try to figure it out. If we can’t, you will get a phone call.]

14. **Throughput Capacity:** Indicate the maximum design capacity of the unit. Use the same units of measure used in the NSPS to describe the size of a source. Wherever possible, use the list of standardized abbreviations for process and emission limit - Appendix D.

15. **Compliance Verification:** This series of fields allows you to enter a yes or no response to the following questions:

    - Compliance verified?
    - Method of confirmation:
        - Stack testing?
        - Other testing?
        - Inspection?
        - Calculations?

    You may also enter a narrative description of other types of confirmation methods.

    [If you leave this field blank, it defaults to “no” to indicate that compliance was not verified.]

16. **Process Notes**: This field should contain any additional information on the process being permitted.

17. **Pollutant(s) Emitted:** Make an entry for each pollutant or parameter for which a control requirement or other restraint has been specified (PM, SO_2 CO_2, NO_2, opacity, or others). Use a separate block for each entry, and identify the pollutant and provide its Chemical Abstracts (CAS) number. Use the following standard abbreviations for these common pollutants whenever possible:

PM	Particulate Matter
SO_2	Sulfur Dioxide
NO_2	Nitrogen Oxides
CO	Carbon Monoxide
VOC	Volatile Organic Compounds
VE	Visible Emissions
TRS	Total Reduced Sulfur
F	Fluoride
Be	Beryllium
H_2S	Hydrogen Sulfide
Hg	Mercury
VC	Vinyl Chloride

Abbreviations for other pollutants are listed in Appendix D, along with CAS numbers.

[Use the drop-down list. To quickly get to say "PM," just type a "P." This will move you down the list to the start of the P's. We are working on cleaning up this list, but at this time many pollutants are listed more than once. The one to choose is the one that lists the pollutant name and it's CAS number. For those pollutants that cover a range of pollutants (PM, PM10, NOx, SOx, VOC, opacity etc) the RBLC uses a custom CAS number. For example, these are the right drop-down entries in the Pollutant Name list to choose for the examples listed above: PM - "PM,PM"; PM10 - "PM10, PM"; NOx - "NOx, 10102"; SOx - "SOx, 7446"; VOC - "VOC, VOC"; opacity - "VE,VE".

Do not choose a pollutant that is not in the "name, CAS#" format because it will have to be changed. If you cannot find the pollutant you need to list in the drop-down, please send me an e-mail at <steigerwald.joe@epa.gov> and I will add it (along with it's CAS number) to the list.]

18. **Emission Limit(s):** For consistency and ease of comparison, list the emission limit or rate in the units of measure listed in Appendix C or those used in AP-42. Wherever possible use the list of standard abbreviations (Appendix D).

There are multiple emission limits in the Clearinghouse, they are:

- Emission limit 1 and units: The primary emission limit listed in the permit.

- Emission limit 2 and units: If provided on the permit, these numbers represent any alternate or secondary emission measurements which the facility may make.

- Standardized limit and units: This limit allows comparison with other similar determinations in the RBLC. Standard units are provided for certain process types (see Appendix D) so that users can compare the entries in this field to determine the most stringent limits.

The base-line limit is no longer used in the RBLC data base.

19. **Emission Type:** A one-character field indicating whether the emission is fugitive, point-source, or area-source.

20. **Pollution Reduction Ranking Information:** Two pieces of information are requested: The number of options examined and the rank of the option selected. The "rank" is the number of the option selected when the options are ordered according to the performance of the system. Number 1 would be the best controlled system, number 2 would be the next best, etc.

21. **Regulatory Requirements Associated with Limit (Basis of Limit):** Indicate the regulatory requirement that precipitated establishing the limit presented, i.e., BACT-PSD, BACT-Other, LAER, MACT, RACT, GACT, NSPS, NESHAP, or Other. Do not list such items as stack test, design or others. These items generally represent the supporting information that may have been used to document or establish the given limit. Such items should be included in the notes section.

    To facilitate the identification of limits use the following abbreviations:

    - BACT-PSD (Prevention of Significant Deterioration)
    - BACT-Other (regulated by state/local rules, not PSD)
    - LAER (lowest Available Control Technology)
    - MACT (Maximum Achievable Control Technology)
    - RACT (Reasonably Available Control Technology)
    - GACT (Generally Available Control Technology)
    - NSPS (New source Performance Standards)
    - NESHAP (National Emission Standards for Hazardous Air Pollutants)
    - Other

22. **Pollution Reduction Method Description:** Describe the specific pollution prevention techniques and add-on equipment used to achieve the permitted

emission limits. Specify "NONE" if no controls are feasible. Pollution prevention techniques include operational modifications, limits in the type and amount of raw materials used, limits on throughout or hours of operation, maintenance requirements, equipment specifications, or other limitations. Typical add-on equipment includes ESP, fabric filter, etc. Information in this section may be supplemented under the "Notes" section.

Please note that the RBLC no longer has separate fields for equipment manufacturer and model number. Place this information, if you have it, in the notes.

[Please note that if you specify “NONE” for this field and then enter something in the Description field, you will get a phone call asking you if you really meant to put “NONE.”

23. **Overall Efficiency %:** Enter the overall system pollution reduction efficiency, consisting of capture (hoods, ductwork, etc.) and collection (control device) efficiency. Any breakdown of efficiencies for capture or collection individually should be shown under "Notes." For P2, indicate the overall effectiveness of the P2 methods.

24. **Cost Data:** Pollution reduction costs include:

    - Year of the dollar used in cost calculations
    - Cost verified by the permitting agency (yes or no)
    - Cost effectiveness in dollars per ton (annualized cost/tons of pollutant removed)
    - Capital cost of control equipment
    - Annual operation and maintenance cost for all control methods
    - Annualized cost (amortized capital cost + annual operation & maintenance costs)

25. **Pollutant Notes:** Use this to describe and other type of information you feel is important to your emission limit.

When you have completed the form, mail it to the following address:

RACT/BACT/LAER CLEARINGHOUSE
RBLC (MD-E143-03)
US EPA
RTP, NC 27711

FORMAT FOR RACT/BACT/LAER CLEARINGHOUSE SUBMITTALS:

Expanded Instructions
(Revised March 2002)

Information can be submitted to the RBLC in the following formats:

- Direct on-line submittal using RBLC Web.
- Using the new RBLC Standalone Editor
- Paper input using the new Clearinghouse submittal forms (dated 3/12/2002).

The on-line submittal procedure is the preferred format. Designated users may obtain a password that allows them to access the RBLC data base Edit module on the Web. Users can add new determinations and make changes to current entries in the Clearinghouse. User's can also download and install the new RBLC Standalone Editor. With the Standalone Editor State and local agency personnel can enter new RBLC determinations on their PC without an Internet connection. Once the user is satisfied with the determination it may be sent to the Clearinghouse electronically via e-mail or on a 3 ½ floppy disk. The final data submittal option is filling out the new RBLC paper form (available for downloading in PDF format on the RBLC Web site). All inquiries concerning RBLC submittals should be directed to:

RACT/BACT/LAER Clearinghouse (MD-E143-03)
Information Transfer & Program Integration Division
U.S. Environmental Protection Agency
Research Triangle Park, North Carolina 27701

OR

The Clean Air Technology Center Information Line
(919) 541-0800, FAX (919) 541-0242

The RBLC Input Form is available for downloading from the Product Information section of the CATC home page. Designed to facilitate the input of determinations and corrections, the form can be used to prepare new determinations and/or to update existing information. For those who wish, the hardcopy (paper) submittal form can be mailed to the RBLC at the above address.

Note from RBLC System Administrator - I have gone through this document and made notes after some of the field descriptions to help State and local agencies with their data entry. Here are some general guidelines:

(**New - March 2002:** We've added a new field at the pollutant level. It's the Pollutant Notes field. Use it to describe and other type of information you feel is important to your emission limit. Since we didn't have a place for this before, folks used to put it in the Facility Notes or the Control Description fields; now we have a place for it.)

- Use the RBLC emission unit abbreviations. It may sound trivial, but we can't promote any determinations until this is done. (Here are some examples - "h" for hour, "gr" fir grain, "t" for ton, etc. A complete list is in an appendix of the User's Manual.)
- Enter process names in the correct format. For example: "boiler, coal-fired, 3" is correct; "3 coal-fired boilers" is wrong.
- Choose the correct pollutant name. This requires a little explanation: The "correct" pollutant name from the RBLC drop down list (on-line entry) will have 2 entries separated by a comma. The second entry is the pollutant's CAS number. For example, the correct entry for particulate matter (PM) is "PM, PM" and the correct entry for sulphur dioxide is "SO2, 7446-09-5". In the case of particulate matter, the RBLC abbreviation is PM and, since there is no CAS number for PM, the RBLC uses PM as it's CAS number. In general, if you are doing on-line data entry and the pollutant you are selecting from the drop down list only has one entry (not 2 entries separated by a comma), choose again!)
- Be sure to enter a SIC and SCC number for your facility and process, respectively.

Finally, here are the RBLC data fields we really have to have before we promote your determination:

Facility Level
- Facility/Plant Name
- State
- Permit Number
- SIC Code
- Permitting Agency Contact Name, telephone number, and e-mail address
- Dates the permit was issued and the operation was started

Process Level
- Process Name
- RBLC Process Code
- Processes' SIC code

Pollutant Level
- Pollutant Name
- Emission Limit

- Basis of the limit
- Emission Type
- Pollution Reduction Method code and description

If this information is not included with your submittal, you will get a call from us. Thanks!

Mail to: **RACT/BACT/LAERCLEARINGHOUSE**
RBLC (MD-E143-03)
USEPA
RTP, NC 27711

RACT/BACT/LAER CLEARINGHOUSE INPUT FORM

Date Submitted _____

Company/Plant Name: _____

Plant/Facility Contact Information:

Plant Contact Name: _____
Telephone Number: _____ Fax: _____
E-Mail Address: _____

Mailing Address: _____
_____
_____
_____
City: _____ State: _____ Zip Code: _____

Physical Plant Location Information: UTM Coordinates: X: _____ Y: _____ Zone: _____

Public Hearing Held? Y N (circle one)

The Source is: New Modified (circle one)

Permit Number: _____
AIRS Facility Number: _____
EPA ID Number: _____
SIC/NAICS Code: _____

Scheduling Information:

	Date	(circle one)
Received Application:	___/___/___	Estimated/Actual
Final Permit Issued:	___/___/___	Estimated/Actual
Start Up Operation:	___/___/___	Estimated/Actual
Compliance Verification:	___/___/___	Estimated/Actual

Company/Plant Location:
State _____
County _____

Permitting Agency Contact Information:

Permitting Agency: _____
Agency Contact: _____
Telephone Number: _____ Fax: _____
E-Mail Address: _____

Address: _____
_____
_____
County: _____ State: _____ Zip Code: _____

Class One Areas Affected within 250km of source:

Class One Area Name	Distance (km)	Class One Area Name	Distance (km)

Source Name:_____ Permit Number: _____

PLANTWIDE INFORMATION

Facility Notes: _____

Plant Information - Please include the following information on the facility being permitted:

Brief Plant Description/Narrative (for example - Chemical Plant, Steel Mill, Paint Manufacturing, etc.):_____

Brief Emission Source(s) Description (for example - boiler, paint spray booth, furnace, etc.):_____

Type(s) of Fuel Used at this Facility:_____

Description of the Pollution Abatement Strategy (for example - fabric filter, ESP, carbon adsorbers, powder coatings, etc.):_____

Plantwide Emissions/Emissions Increase Information (Rate After Control)**:**

Pollutant:	Emissions (T/YR):	Pollutant:	Emissions (T/YR):	Pollutant:	Emissions (T/YR):

RACT/BACT/LAER Clearinghouse Input Form, page 3 (Process/Pollutant Information)

Source Name: _____ Permit Number: _____

Process Information

Process Name/Description: _____

RBLC Process Code: _____ SCC Code: _____

Throughput Capacity/Size: _____ Primary Fuel: _____

Compliance Verified? Y N If so, By What Method? (circle those that apply): Stack Test? Y N Calculation? Y N
Other Test? Y N Inspection? Y N

Other Method? _____

Process Notes : _____

Pollutant Information

Pollutant Name: _____

CAS Number: _____

Pollution Reduction Method Description:

- ❑ Pollution Prevention (P2)
- ❑ Add-on Control Device
- ❑ Both P2 and Add-on
- ❑ No Controls Feasible

Basis of Limit (circle one):

BACT-PSD BACT-Other LAER
MACT GACT RACT
NSPS NESHAPS OTHER

Pollution Prevention/Add-on Control Equipment Description: _____

No. of Pollution Reduction Options Examined: _____ Overall % Efficiency of Control/ Prevention System: _____

Rank of Pollution Reduction Option Selected: _____ Emission Type? (circle one): area point fugitive

Emission Limits: Limit 1: _____ Pollutant Notes: _____

Emission Limit 2: _____

RBLC Standard Emission Limit: _____
(where applicable)

Pollution Control Cost Info: Costs verified by Agency? Yes No O & M Costs: _____ Annualized Costs: _____ Capital Costs: _____

Costs are in _____ (year) dollars. Cost Effectiveness ($/T of poll. removed): _____ Incremental Cost Effectiveness ($/T of poll. removed): _____

RBLC Input Form, page 4 (Pollutant Information - continuation page) Source Name: _____

Process Description: _____ Permit Number: _____ RBLC Process Code: _____

Information on Additional Pollutant

Pollutant Information

Pollutant Name: _____

CAS Number: _____

Pollution Reduction Method Description:

- ❑ Pollution Prevention (P2)
- ❑ Both P2 and Add-on
- ❑ Add-on Control Device
- ❑ No Controls Feasible

Basis of Limit (circle one):

BACT-PSD BACT-Other LAER
MACT GACT RACT
NSPS NESHAPS OTHER

Pollution Prevention/Add-on Control Equipment Description: _____

No. of Pollution Reduction Options Examined: _____

Overall % Efficiency of Control/ Prevention System: _____

Rank of Pollution Reduction Option Selected: _____

Emission Type? (circle one): area point fugitive

Emission Limits: Limit 1: _____

Pollutant Notes: _____

Emission Limit 2: _____

RBLC Standard Emission Limit: (where applicable) _____

Pollution Control Cost Info: O & M Costs: _____ Annualized Costs: _____ Capital Costs: _____ Costs are in _____ (year) dollars.

Costs verified by Agency? Yes No

Cost Effectiveness ($/T of poll. removed): _____

Incremental Cost Effectiveness ($/T of poll. removed): _____

Information on Additional Pollutant

Pollutant Information

Pollutant Name: _____

CAS Number: _____

Pollution Reduction Method Description:

- ❑ Pollution Prevention (P2)
- ❑ Both P2 and Add-on
- ❑ Add-on Control Device
- ❑ No Controls Feasible

Basis of Limit (circle one):

BACT-PSD BACT-Other LAER
MACT GACT RACT
NSPS NESHAPS OTHER

Pollution Prevention/Add-on Control Equipment Description: _____

No. of Pollution Reduction Options Examined: _____

Overall % Efficiency of Control/ Prevention System: _____

Rank of Pollution Reduction Option Selected: _____

Emission Type? (circle one): area point fugitive

Emission Limits: Limit 1: _____

Pollutant Notes: _____

Emission Limit 2: _____

RBLC Standard Emission Limit: (where applicable) _____

Pollution Control Cost Info: O & M Costs: _____ Annualized Costs: _____ Capital Costs: _____ Costs are in _____ (year) dollars.

Costs verified by Agency? Yes No

Cost Effectiveness ($/T of poll. removed): _____

Incremental Cost Effectiveness ($/T of poll. removed): _____

APPENDIX B
AGENCY CODE LISTING

This page has been intentionally left blank.

Appendix B -- Agency Code Listing

ALABAMA

AL001	Alabama Dept of Environmental Mgmt
AL002	Huntsville Air Poll Control Agency, AL
AL003	Jefferson Co Department of Health, AL
AL999	Other Alabama

ALASKA

AK001	Alaska Dept of Environmental Cons
AK002	Fairbanks North Star Borough, AK
AK003	S. Central Air, Anchorage APCA, AK
AK999	Other Alaska

AMERICAN SAMOA

AS001	American Samoa Env Quality Commission
AS999	Other American Samoa

ARIZONA

AZ001	Arizona Dept of Env Qual, Ofc of Air Qua
AZ002	Maricopa Co Air Pollution Control, AZ
AZ003	Pima Co Dept of Env Quality, AZ
AZ004	Pinal Co Air Quality Control Dist, AZ
AZ999	Other Arizona

ARKANSAS

AR001	Arkansas Dept of Poll Ctrl & Ecology
AR999	Other Arkansas

CALIFORNIA

CA001	California Air Resources Board
CA002	Amador County APCD, CA
CA003	Bay Area AQMD, CA
CA004	Butte County APCD, CA
CA005	Calaveras County APCD, CA

CA006	Colusa County APCD, CA
CA007	El Dorado County APCD, CA
CA046	Feather River AQMD, CA
CA008[1]	Fresno APCD, CA
CA009	Glenn County APCD, CA
CA010	Great Basin Unified APCD, CA
CA011	Imperial County APCD, CA
CA012	Kern County APCD, CA
CA013[4]	Kings County APCD, CA
CA014	Lake County AQMD, CA
CA015	Lassen County APCD, CA
CA016[4]	Madera County APCD, CA
CA017	Mariposa County APCD, CA
CA018	Mendocino County AQMD, CA
CA019[4]	Merced County APCD, CA
CA020	Modoc County APCD, CA
CA029	Mojave Desert AQMD, CA
CA021	Monterey Bay Unified APCD, CA
CA022[4]	Mountain Counties Air Basin, CA
CA023	North Coast Unified AQMD, CA
CA024	Northern Sierra AQMD, CA
CA025	Northern Sonoma County APCD, CA
CA026	Placer County APCD, CA
CA027[4]	Plumas County Env. Health Department, CA
CA028	Sacramento Metropolitan AQMD, CA
CA030	San Diego County APCD, CA
CA047	San Joaquin Valley Unified APCD - Central Regional Office, CA
CA048	San Joaquin Valley Unified APCD - Northern Regional Office, CA
CA049	San Joaquin Valley Unified APCD - Southern Regional Office, CA
CA032	San Luis Obispo County APCD, CA
CA033	Santa Barbara County APCD, CA
CA034	Shasta County AQMD, CA
CA035	Siskiyou County APCD, CA
CA036	South Coast AQMD, CA
CA037[4]	Standards County APCD, CA
CA038[4]	Stanislaus County APCD, CA
CA039[4]	Sutter County APCD, CA
CA040	Tehama County APCD, CA
CA041[4]	Tulare County APCD, CA
CA042	Tuolumne County APCD, CA
CA043	Ventura County APCD, CA
CA044	Yolo-Solano APCD, CA
CA045[4]	Yuba County APCD, CA

[1] No longer active. Listed for historical purposes only.

CA999	Other California

COLORADO

CO001	Colorado Dept of Health - Air Poll Ctrl
CO002	Boulder County Health Department, CO
CO003	Denver City-Co Air Qual/Env Prot, CO
CO004	El Paso County Health Department, CO
CO005	Jefferson Co Dept of Health & Env, CO
CO006	Larimer Co Health Dept, Env Health, CO
CO007	Mesa County Health Department, CO
CO008	Pueblo City-County Health Department, CO
CO009	Weld County Health Department, CO
CO999	Other Colorado

CONNECTICUT

CT001	Connecticut Bureau of Air Management
CT002	Bristol-Burlington Health Department, CT
CT003	City of Meriden, Dept Human Serv, CT
CT004	Dept of Air Poll Ctrl, Bridgeport, CT
CT005	Greenwich Department of Health, CT
CT006	New Haven Health Department, CT
CT007	Norwalk Department of Health, CT
CT008	Stamford Health Department, CT
CT009	Stratford Department of Health, CT
CT999	Other Connecticut

DELAWARE

DE001	Delaware Dept of Natural Res & Env Ctrl
DE999	Other Delaware

DISTRICT OF COLUMBIA

DC001	DC Air Qual Control & Monitoring Branch
DC999	Other District of Columbia

FLORIDA

FL001	Florida Dept of Env Regulation
FL002	Broward Co Ofc of Nat Res Prot, FL
FL003	City of Jacksonville, FL
FL004	Hillsborough Co Env Prot Comm, FL
FL005	Jacksonville, Bio-Environmental Serv, FL

FL006	Manatee County Public Health Unit, FL
FL007	Metro Dade Co Dept of Env Res Mgmt, FL
FL008	Palm Beach County Public Health Unit, FL
FL009	Pinellas Co Dept of Env Mgmt, FL
FL010	Sarasota County Air Program, FL
FL999	Other Florida

GEORGIA

GA001	Georgia Department of Natural Resources
GA999	Other Georgia

GUAM

GU001	Guam Environmental Protection Agency
GU999	Other Guam

HAWAII

HI001	Hawaii Clean Air Branch
HI999	Other Hawaii

IDAHO

ID001	Idaho Dept of Health & Welfare
ID999	Other Idaho

ILLINOIS

IL001	Illinois EPA, Div of Air Poll Control
IL002	Bedford Park Env Qual Ctrl Board, IL
IL003	Bensenville Air Poll Control Dist, IL
IL004	City of Chicago, Env Prot Div, IL
IL005	City of Evanston-Dept Bldg & Zoning, IL
IL006	Cook Co Dept of Env Control, IL
IL007	Dupage County Health Department, IL
IL008	Village of McCook Env Board, IL
IL999	Other Illinois

INDIANA

IN001	Indiana Dept of Env Mgmt, Ofc of Air
IN002	Anderson Air Pollution Control Dept, IN
IN003	E. Chicago Dept of Air Qual Control, IN
IN004	Evansville Air Pollution Control, IN

IN005	Gary Air Pollution Control, IN
IN006	Hammond Air Pollution Control Dept, IN
IN007	Indianapolis Air Poll Control Div, IN
IN008	Lake County Air Pollution Control, IN
IN009	St. Joseph County Air Poll Control, IN
IN010	Vigo County Air Pollution Control, IN
IN999	Other Indiana

IOWA

IA001	Iowa Department of Natural Resources
IA002	Linn County Health Department, IA
IA003	Polk County Physical Planning Dept, IA
IA999	Other Iowa

KANSAS

KS001	Kansas Bureau of Air and Waste Mgmt
KS002	Kansas City/Wyandotte Co Health Dept, KS
KS003	Topeka-Shawnee County Health Agency, KS
KS004	Wichita-Sedgwick Co Comm Health Dept, KS
KS999	Other Kansas

KENTUCKY

KY001	Kentucky DEP, Div for Air Quality
KY002	Jefferson Co APCD, KY
KY999	Other Kentucky

LOUISIANA

LA001	Louisiana Department of Env Quality
LA999	Other Louisiana

MAINE

ME001	Maine Department of Env Protection
ME999	Other Maine

MARYLAND

MD001	Maryland Department of the Environment
MD002	Allegany County Health Department, MD
MD003	Anne Arundel Co Air Qual Cont Prog, MD
MD004	Baltimore City Health Department, MD

MD005	Baltimore Co Bur Air Qual/Waste Mgmt, MD
MD006	Frederick County Health Department, MD
MD007	Harford County Health Department, MD
MD008	Howard County Health Department, MD
MD009	Montgomery County DEP, MD
MD010	Prince George's County Health Dept, MD
MD999	Other Maryland

MASSACHUSETTS

MA001	Massachusetts Div of Air Qual Control
MA002	Berkshire and Pioneer Valley APCD, MA
MA003	Boston Air Pollution Control Comm, MA
MA004	Massachusetts DEP, Central Reg Air Qual
MA005	Merrimack Valley & Metro Boston APCD, MA
MA006	SE Massachusetts Air Poll Ctrl Dist, MA
MA999	Other Massachusetts

MICHIGAN

MI001	Michigan Department of Natural Resources
MI002	City of Grand Rapids Env Serv Dept, MI
MI003	Wayne County Air Poll Control Div, MI
MI999	Other Michigan

MINNESOTA

MN001	Minnesota Poll Ctrl Agcy, Air Qual Div
MN002	City of Bloomington, Env Poll Sec, MN
MN003	City of Richfield, Air Poll Ctrl, MN
MN004	Minneapolis Pollution Control Div, MN
MN005	St. Louis Park Inspectional Serv, MN
MN999	Other Minnesota

MISSISSIPPI

MS001	Mississippi Dept of Env Quality
MS999	Other Mississippi

MISSOURI

MO001	Missouri DNR, Air Poll Control Program
MO002	City of St. Louis Air Poll Ctrl, MO
MO003	Greene Co-City of Springfield APCA, MO
MO004	Kansas City, MO, Air Quality Section

MO005	St. Louis Co Air Poll Control Br, MO
MO999	Other Missouri

MONTANA

MT001	Montana Dept of Environmental Quality
MT002	Cascade City-Co Air Poll Ctrl Prog, MT
MT003	Missoula City-County Health Dept, MT
MT004	Yellowstone County Air Poll Control, MT
MT999	Other Montana

NEBRASKA

NE001	Nebraska Dept of Env Control
NE002	Lincoln-Lancaster Co Health Dept, NE
NE003	Omaha City Air Quality Control Div, NE
NE999	Other Nebraska

NEVADA

NV001	Nevada Dept of Cons and Natural Res
NV002	Clark Co Health Dist, Div APC, NV
NV003	Washoe County District Health Dept, NV
NV999	Other Nevada

NEW HAMPSHIRE

NH001	New Hampshire Dept of Env Serv, Air Res
NH999	Other New Hampshire

NEW JERSEY

NJ001	New Jersey Dept of Env Protection
NJ002	City of Elizabeth City Hall, NJ
NJ003	Hudson Regional Health Commission, NJ
NJ004	Middlesex Co Air Poll Ctrl Prog, NJ
NJ999	Other New Jersey

NEW MEXICO

NM001	New Mexico Env Improvement Div/Air Qual
NM002	Albuquerque Env Health & Energy Dept NM
NM999	Other New Mexico

NEW YORK

NY001	New York DEC, Div of Air Resources
NY002	Albany County Dept of Health, NY
NY003	Interstate Sanitation Commission, NY
NY004	Monroe County Department of Health, NY
NY005	Nassau Co DOH, Center for Env Prot, NY
NY006	New York City Bureau of Air Res, NY
NY007	Niagara Co Health Dept, Air Res Bur, NY
NY008	Rensselaer Co DOH, Div of Env Health, NY
NY009	Rockland Co DOH, Air Poll Ctrl, NY
NY010	Suffolk Co Ofc of Haz Mat Mgmt, NY
NY011	Westchester County Dept of Health, NY
NY999	Other New York

NORTH CAROLINA

NC001	North Carolina Div of Env Mgmt
NC002	Cleveland County Health Department, NC
NC003	Cumberland Co Air Pollution Control, NC
NC004	Forsyth County Env Affairs Dept, NC
NC005	Mecklenburg Co Dept of Env Prot, NC
NC006	W. North Carolina Reg Air Poll Ctrl Bd
NC999	Other North Carolina

NORTH DAKOTA

ND001	North Dakota State Department of Health
ND999	Other North Dakota

OHIO

OH001	Ohio Environmental Protection Agency
OH002	Akron Reg Air Quality Mgmt Dist, OH
OH003	Canton Air Pollution Control Div, OH
OH004	City of Toledo, Env Services Div, OH
OH005	Cleveland Div of Air Poll Control, OH
OH006	Hamilton Co-Southwestern OH APCA
OH007	Lake County General Health District, OH
OH008	Mahoning-Trumbull Air Poll Ctrl Agcy, OH
OH009	Montgomery Co Reg Air Poll Ctrl Agcy, OH
OH010	North Ohio Valley Air Authority, OH
OH011	Portsmouth Local Air Agency, OH
OH012	Dayton Regional Air Poll Ctrl Agency, OH
OH999	Other Ohio

OKLAHOMA

OK001	Oklahoma Air Quality Service
OK002	City-Co Health Dept of Oklahoma City
OK003	Tulsa City-County Health Department, OK
OK999	Other Oklahoma

OREGON

OR001	Oregon Dept of Environmental Quality
OR002	Lane Regional Air Poll Authority, OR
OR999	Other Oregon

PENNSYLVANIA

PA001	Pennsylvania DER, Bur of Air Qual Ctrl
PA002	Allegheny Co Bureau of Air Poll Ctrl, PA
PA003	Philadelphia DOPH, Air Mgmt Serv, PA
PA999	Other Pennsylvania

PUERTO RICO

PR001	Puerto Rico Env Quality Board
PR999	Other Puerto Rico

RHODE ISLAND

RI001	Rhode Island Div of Air & Haz Mat
RI999	Other Rhode Island

SOUTH CAROLINA

SC001	South Carolina Dept of Health & Env Ctrl
SC002	City of Columbia Air Poll Control, SC
SC999	Other South Carolina

SOUTH DAKOTA

SD001	South Dakota Dept of Water & Nat'l Res
SD999	Other South Dakota

TENNESSEE

TN001	Tennessee Div of Air Pollution Control

TN002	Chattanooga-Hamilton Co APCB, TN
TN003	Knox Co Dept of Air Poll Control, TN
TN004	Memphis and Shelby Co Health Dept, TN
TN005	Metro Health/Nashville & Davidson Co, TN
TN999	Other Tennessee

TEXAS

TX001	Texas Air Control Board
TX002	City of Dallas, Health & Human Serv, TX
TX003	City of Houston, Bureau Air Qual Cont, TX
TX004	El Paso County Health Unit, TX
TX005	Fort Worth Air Pollution Control, TX
TX006	Galveston County Health District, TX
TX007	Harris County Pollution Control Dept, TX
TX008	Lubbock City Health Department, TX
TX999	Other Texas

UTAH

UT001	Utah Bureau of Air Quality
UT999	Other Utah

VERMONT

VT001	Vermont Air Pollution Control Division
VT999	Other Vermont

VIRGIN ISLANDS

VI001	Virgin Islands Dept of Planning, Nat Res
VI999	Other Virgin Islands

VIRGINIA

VA001	Virginia Environmental Quality Air Division
VA999	Other Virginia

WASHINGTON

WA001	Washington State Department of Ecology
WA002	Benton-Franklin-Walla Walla Co APA, WA
WA003	Northwest Air Pollution Authority, WA

WA004	Olympic Air Poll Control Authority, WA
WA005	Puget Sound Air Poll Control Agency, WA
WA006	Southwest Air Poll Ctrl Authority, WA
WA007	Spokane Co Air Poll Control Auth, WA
WA008	Yakima County Clean Air Authority, WA
WA999	Other Washington

WEST VIRGINIA

WV001	West Virginia Air Pollution Control Comm
WV999	Other West Virginia

WISCONSIN

WI001	Wisconsin Dept of Natural Resources
WI002	Eau Claire City-Co Health Dept, WI
WI003	Madison Department of Public Health, WI
WI004	Milwaukee Co DPW, Env Serv Sec, WI
WI999	Other Wisconsin

WYOMING

WY001	Wyoming Air Qual Div, Dept of Env Qual
WY999	Other Wyoming

OTHER

OT001	National Park Service
OT002	EPA Region I
OT003	EPA Region II
OT004	EPA Region III
OT005	EPA Region IV
OT006	EPA Region V
OT007	EPA Region VI
OT008	EPA Region VII
OT009	EPA Region VIII
OT010	EPA Region IX
OT011	EPA Region X

APPENDIX C
PROCESS TYPE CODE LISTING

This page has been intentionally left blank.

Appendix C -- Process Code Listing

PLEASE NOTE: The RBLC is currently in the process of re-organizing the Process Type Code (PTC) system. To date, the external combustion sources (formerly PTC 11.xxx) have been modified and are reflected in this list. The new codes include 11.xxx, 12.xxx, 13.xxx, and 14.xxx. The archived external combustion PTCs still be found at the end of this Appendix.

RBLC is currently working on the internal combustion (15.xxx) codes.

10.000 FUEL COMBUSTION

11.000 Utility- and Large Industrial-Size Boilers/Furnaces (> 250 MMBtu/h)

11.100 Solid Fuel & Solid Fuel Mixtures
- 11.110 Coal (includes bituminous, subbituminous, anthracite, and lignite)
- 11.120 Biomass (includes wood, wood waste, bagasse, and other biomass)
- 11.130 Other Solid Fuel & Solid Fuel Mixtures

11.200 Liquid Fuel & Liquid Fuel Mixtures
- 11.210 Residual Fuel Oil (ASTM # 4,5,6)
- 11.220 Distillate Fuel Oil (ASTM # 1,2, includes kerosene, aviation, diesel fuel)
- 11.230 Other Liquid Fuel & Liquid Fuel Mixtures

11.300 Gaseous Fuel & Gaseous Fuel Mixtures
- 11.310 Natural Gas (includes propane and liquefied petroleum gas)
- 11.320 Other Gaseous Fuel & Gaseous Fuel Mixtures

11.900 Other Fuels and Combinations (e.g., solid/liquid, liquid/gas)

12.000 Industrial-Size Boilers/Furnaces (> 100 MMBtu/h & <= 250 MMBtu/h)

12.100 Solid Fuel & Solid Fuel Mixtures
- 12.110 Coal (includes bituminous, subbituminous, anthracite, and lignite)
- 12.120 Biomass (includes wood, wood waste, bagasse, and other biomass)
- 12.130 Other Solid Fuel & Solid Fuel Mixtures

12.200 Liquid Fuel & Liquid Fuel Mixtures
- 12.210 Residual Fuel Oil (ASTM # 4,5,6)
- 12.220 Distillate Fuel Oil (ASTM # 1,2, includes kerosene, aviation, diesel fuel)
- 12.230 Other Liquid Fuel & Liquid Fuel Mixtures

12.300 Gaseous Fuel & Gaseous Fuel Mixtures
- 12.310 Natural Gas (includes propane and liquefied petroleum gas)
- 12.320 Other Gaseous Fuel & Gaseous Fuel Mixtures

12.900 Other Fuels and Combinations (e.g., solid/liquid, liquid/gas)

CODE PROCESS TYPE

13.000 Commercial/Institutional-Size Boilers/Furnaces (<= 100 MMBtu/h)

13.100 Solid Fuel & Solid Fuel Mixtures
- 13.110 Coal (includes bituminous, subbituminous, anthracite, and lignite)
- 13.120 Biomass (includes wood, wood waste, bagasse, and other biomass)
- 13.130 Other Solid Fuel & Solid Fuel Mixtures

13.200 Liquid Fuel & Liquid Fuel Mixtures
- 13.210 Residual Fuel Oil (ASTM # 4,5,6)
- 13.220 Distillate Fuel Oil (ASTM # 1,2, includes kerosene, aviation, diesel fuel)
- 13.230 Other Liquid Fuel & Liquid Fuel Mixtures

13.300 Gaseous Fuel & Gaseous Fuel Mixtures
- 13.310 Natural Gas (includes propane and liquefied petroleum gas)
- 13.320 Other Gaseous Fuel & Gaseous Fuel Mixtures

13.900 Other Fuels and Combinations (e.g., solid/liquid, liquid/gas)

14.000 Miscellaneous Heaters and Furnaces (unknown size)

14.100 Solid Fuel & Solid Fuel Mixtures
14.200 Liquid Fuel & Liquid Fuel Mixtures
14.300 Gaseous Fuel & Gaseous Fuel Mixtures
14.900 Other/Unknown Fuels and Combinations (e.g., solid/liquid, liquid/gas)

15.000 Large Combustion Turbines (more than 25 MW)

15.100 Simple Cycle (turbine alone w/out waste heat recovery)
- 15.110 Natural Gas (includes propane and liquefied petroleum gas)
- 15.120 Other Gaseous Fuel & Gaseous Fuel Mixtures
- 15.130 Liquid Fuel & Liquid Fuel Mixtures

15.200 Combined Cycle & Cogeneration
- 15.210 Natural Gas (includes propane and liquefied petroleum gas)
- 15.220 Other Gaseous Fuel & Gaseous Fuel Mixtures
- 15.230 Liquid Fuel & Liquid Fuel Mixtures

15.900 Other/Unknown Cycle and/or Fuel

CODE PROCESS TYPE

16.000 Small Combustion Turbines (25 MW or less)

16.100 Simple Cycle (turbine alone w/out waste heat recovery)
- 16.110 Natural Gas (includes propane and liquefied petroleum gas)
- 16.120 Other Gaseous Fuel & Gaseous Fuel Mixtures
- 16.130 Liquid Fuel & Liquid Fuel Mixtures

16.200 Combined Cycle & Cogeneration
- 16.210 Natural Gas (includes propane and liquefied petroleum gas)
- 16.220 Other Gaseous Fuel & Gaseous Fuel Mixtures
- 16.230 Liquid Fuel & Liquid Fuel Mixtures

16.900 Other/Unknown Cycle and/or Fuel

17.000 Internal Combustion Engines

17.100 Large Internal Combustion Engines (more than 500 horsepower)
- 17.110 Fuel Oil (ASTM #1,2, includes kerosene, aviation, diesel fuel)
- 17.120 Other Liquid Fuel & Liquid Fuel Mixtures
- 17.130 Natural Gas (includes propane and liquified petroleum gas)
- 17.140 Other Gaseous Fuel & Gaseous Fuel Mixtures
- 17.150 Other/Unknown Fuel

17.200 Small Internal Combustion Engines (500 horsepower or less)
- 17.210 Fuel Oil (ASTM #1,2, includes kerosene, aviation, diesel fuel)
- 17.220 Other Liquid Fuel & Liquid Fuel Mixtures
- 17.230 Natural Gas (includes propane and liquified petroleum gas)
- 17.240 Other Gaseous Fuel & Gaseous Fuel Mixtures
- 17.250 Other/Unknown Fuel

18.000 (reserved)

19.000 Miscellaneous Combustion
19.100 Misc. Boilers, Furnaces, Heaters
19.200 Misc. Combustion Turbines
19.300 Misc. Internal Combustion Engines
19.900 Other Misc. Combustion

CODE PROCESS TYPE

20.000 WASTE DISPOSAL

21.000 MUNICIPAL WASTE

21.001 Municipal Waste Combustors/Incinerators
21.002 Municipal Waste Landfills
21.003 Publicly Owned Treatment Works (POTW) Emissions (except 21.004)
21.004 Sewage Sludge Incineration
21.999 Other Municipal Waste Processing/Disposal Facilities

22.000 HAZARDOUS WASTE

22.007 Asbestos Demolition, Renovation, and Disposal
22.001 Benzene Waste Treatment
22.006 Contaminated Soil Treatment
22.002 Hazardous Waste Incineration
22.003 Hazardous Waste Landfills
22.004 Site Remediation
22.005 Treatment, Storage and Disposal Facilities (TSDF) (except 22.002, 22.003 & 22.006)
22.999 Other Hazardous Waste Processing/Disposal Facilities

29.000 OTHER WASTE DISPOSAL (except 21 & 22)

29.001 Automobile Body Shredding/Incineration
29.002 Industrial Wastewater/Contaminated Water Treatment
29.003 Industrial Landfills
29.004 Medical/Infectious Waste Incineration
29.999 Other Waste Disposal Sources

30.000 WOOD PRODUCTS INDUSTRY

30.001 Charcoal
30.002 Kraft Pulp Mills

CODE PROCESS TYPE

30.003 Plywood and Veneer Operations
30.004 Pulp and Paper Production other than Kraft
30.005 Reconstituted Panelboard Plants (waferboard, particleboard, etc.)
30.006 Wood Treatment
30.007 Woodworking
30.999 Other Wood Products Industry Sources

40.000 ORGANIC EVAPORATIVE LOSSES

41.000 SURFACE COATING/PRINTING/GRAPHIC ARTS

41.001 Aerospace Surface Coating
41.002 Automobiles and Trucks Surface Coating (OEM)
41.003 Automotive Refinishing
41.004 Can Surface Coating
41.005 Fabric Coating/Printing/Dyeing (except 41.017)
41.006 Flatwood Paneling Surface Coating
41.007 Flexible Vinyl & Urethane Coating/Printing
41.008 Large Appliance Surface Coating
41.026 Leather Surface Coating
41.009 Magnetic Tape Surface Coating
41.010 Magnetic Wire Surface Coating
41.011 Metal Coil Surface Coating
41.012 Metal Furniture Surface Coating
41.013 Miscellaneous Metal Parts and Products Surface Coating
41.014 Paper, Plastic & Foil Web Surface Coating (except 41.007 & 41.018)
41.015 Plastic Parts for Business Machines Surface Coating
41.016 Plastic Parts & Products Surface Coating (except 41.015)
41.017 Polymeric Coating of Fabrics
41.018 Pressure Sensitive Tapes and Labels Coating
41.019 Printing - Forms
41.020 Printing - News Print
41.021 Printing - Packaging
41.022 Printing - Publication
41.023 Printing/Publication (except 41.007 & 41.019-022)
41.024 Ship Building & Repair Surface Coating
41.025 Wood Products/Furniture Surface Coating (except 41.006)

CODE PROCESS TYPE

41.999 Other Surface Coating/Printing/Graphic Arts Sources

42.000 LIQUID MARKETING (PETROLEUM PRODUCTS, GASOLINE, VOL)

42.001 Gasoline Bulk Plants
42.002 Gasoline Bulk Terminals
42.003 Gasoline Marketing (except 42.001 & 42.002)
42.004 Petroleum Liquid Marketing (except 42.001-003 & 42.005-006)
42.005 Petroleum Liquid Storage in Fixed Roof Tanks
42.006 Petroleum Liquid Storage in Floating Roof Tanks
42.009 Volatile Organic Liquid Storage
42.010 Volatile Organic Liquid Marketing (except 42.009)
42.999 Other Liquid Marketing Sources

49.000 ORGANIC EVAPORATIVE LOSSES (except 41 & 42)

49.001 Aerosol Can Filling
49.012 Architectural & Industrial Maintenance (AIM) Coatings
49.013 Automobile Refinish Coatings
49.011 Consumer Products
49.002 Dry Cleaning - PERC/Chlorinated Solvents
49.003 Dry Cleaning - Petroleum Solvents
49.004 Fiberglass Boat Manufacturing
49.005 Fiberglass/Reinforced Polymer Products Manufacturing (except 49.004)
49.006 Halogenated Solvent Cleaners
49.007 Ink Manufacturing
49.008 Organic Solvent Cleaning & Degreasing (except 49.006)
49.009 Paint/Coating/Adhesives Manufacturing
49.010 Paint Stripping
49.999 Other Organic Evaporative Loss Sources

50.000 PETROLEUM/NATURAL GAS PRODUCTION AND REFINING

50.001 Oil and Gas Field Services
50.002 Natural Gas/Gasoline Processing Plants
50.003 Petroleum Refining Conversion Processes (cracking, CO boilers, reforming, alkylation,

polymerization, isomerization, coking)
50.007 Petroleum Refining Equipment Leaks/Fugitive Emissions
50.004 Petroleum Refining Feedstock (blending, loading and unloading)
50.008 Petroleum Refining Flares and Incinerators (except acid gas/sulfur recovery unit incinerators - 50.006)
50.005 Petroleum Refining Separation Processes (distillation and light ends recovery)
50.006 Petroleum Refining Treating Processes (hydrodesulfurization, hydrotreating, chemical sweetening, acid gas removal, deasphalting, sulfur recovery units, acid gas/sulfur recovery unit incinerators)
50.009 Petroleum Refining Wastewater and Wastewater Treatment
50.010 Shale Processing
50.999 Other Petroleum/Natural Gas Production & Refining Sources (except 50.001-010 and 42.000 - Liquid Marketing

60.000 CHEMICALS MANUFACTURING

61.000 AGRICULTURAL CHEMICALS MANUFACTURING

61.001 2,4-D Salts and Esters Production
61.002 4-Chloro-2-Methylphenoxyacetic Acid Production
61.003 4,6-Dinitro-o-Cresol Production
61.004 Captafol (tm) Production
61.005 Captan (tm) Production
61.006 Chloroneb (tm) Production
61.007 Chlorthalonil (tm) Production
61.008 Dacthal (tm) Production
61.012 Fertilizer Production (except 61.009)
61.009 Phosphate Fertilizers Production
61.010 Sodium Pentachlorophenate Production
61.011 Tordon Acid Production
61.999 Other Agricultural Chemical Manufacturing Sources

62.000 INORGANIC CHEMICALS MANUFACTURING

62.001 Ammonium Sulfate Production - Caprolactam By-Product Plants
62.002 Antimony Oxides Manufacturing

CODE PROCESS TYPE

62.003 Chlorine Production
62.016 Chloroalkali Production
62.004 Chromium Chemicals Manufacturing
62.005 Cyanuric Chemicals Manufacturing
62.006 Fume Silica Production
62.007 Hydrochloric Acid Production
62.017 Hydrofluoric Acid Production
62.008 Hydrogen Cyanide Production
62.009 Hydrogen Fluoride Production
62.020 Inorganic Liquid/Gas Storage & Handling
62.014 Nitric Acid Plants
62.010 Phosphoric Acid Manufacturing
62.011 Quaternary Ammonium Compounds Production
62.018 Sodium Carbonate Production
62.012 Sodium Cyanide Production
62.015 Sulfuric Acid Plants
62.019 Sulfur Recovery (except 50.006)
62.013 Uranium Hexafluoride Production
62.999 Other Inorganic Chemical Manufacturing Sources

63.000 POLYMER AND RESIN PRODUCTION

63.001 Acetal Resins Production
63.002 Acrylonitrile-Butadiene-Styrene Production
63.003 Alkyd Resins Production
63.004 Amino Resins Production
63.005 Butadiene-Furfural Cotrimer (R-11)
63.006 Butyl Rubber Production
63.007 Carboxymethylcellulose Production
63.008 Cellophane Production
63.009 Cellulose Ethers Production
63.010 Epichlorohydrin Elastomers Production
63.011 Epoxy Resins Production
63.012 Ethylene-propylene Rubber Production
63.013 Flexible Polyurethane Foam Production
63.014 Hypalon (tm) Production
63.015 Maleic Copolymers Production
63.016 Methylcellulose Production

CODE PROCESS TYPE

63.017 Methyl Methacrylate-Acrylonitrile-Butadiene-Styrene Production
63.018 Methyl Methacrylate-Butadiene-Styrene Terpolymers Production
63.019 Neoprene Production
63.020 Nitrile Butadiene Rubber Production
63.021 Non-Nylon Polyamides Production
63.022 Nylon 6 Production
63.023 Phenolic Resins Production
63.024 Polybutadiene Rubber Production
63.025 Polycarbonates Production
63.026 Polyester Resins Production
63.027 Polyether Polyols Production
63.028 Polyethylene Terephthalate Production
63.029 Polymerized Vinylidene Production
63.030 Polymethyl Methacrylate Resins Production
63.031 Polystyrene Production
63.032 Polysulfide Rubber Production
63.033 Polyvinyl Acetate Emulsions Production
63.034 Polyvinyl Alcohol Production
63.035 Polyvinyl Butyral Production
63.036 Polyvinyl Chloride and Copolymers Production
63.037 Reinforced Plastic Composites Production
63.038 Styrene-Acrylonitrile Production
63.039 Styrene Butadiene Rubber and Latex Production
63.999 Other Polymer and Resin Manufacturing Sources

64.000 SYNTHETIC ORGANIC CHEMICAL MANUFACTURING INDUSTRY (SOCMI)

64.001 Batch Reaction Vessels (except 69.011)
64.002 Equipment Leaks (valves, compressors, pumps, etc.)
64.003 Processes Vents (emissions from air oxidation, distillation, and other reaction vessels)
64.004 Storage Tanks (SOCMI Chemicals (loading/unloading, filling, etc.)
64.005 Transfer of SOCMI Chemicals (loading/unloading, filling, etc.)
64.006 Wastewater Collection & Treatment
64.999 Other SOCMI Industry Sources

65.000 SYNTHETIC FIBERS PRODUCTION

CODE PROCESS TYPE

65.001 Acrylic Fibers/Modacrylic Fibers Production
65.002 Rayon Production
65.003 Spandex Production
65.999 Other Synthetic Fibers Production Sources

69.000 CHEMICAL MANUFACTURING (except 61, 62, 63, 64 & 65)

69.001 Benzyltrimethylammonium Chloride Facilities
69.002 Butadiene Dimers Production
69.015 Carbon Black Manufacturing
69.003 Carbonyl Sulfide Production
69.004 Chelating Agents Production
69.005 Chlorinated Paraffins Production
69.006 Dodecanedioic Acid Production
69.007 Ethylidene Norbornene Production
69.008 Explosives Production
69.009 Hydrazine Production
69.010 OBPA/1,3-Diisocyanate Production
69.011 Pharmaceuticals Production
69.012 Photographic Chemicals Production
69.013 Phthalate Plasticizers Production
69.017 Propellant Manufacturing & Production
69.014 Rubber Chemicals Manufacturing
69.016 Soap & Detergent Manufacturing
69.999 Other Chemical Manufacturing Sources

70.000 FOOD AND AGRICULTURAL PRODUCTS (also see 61 - AGRICULTURAL CHEMICALS)

70.016 Alcohol Fuel Production
70.008 Alcoholic Beverages Production
70.001 Alfalfa Dehydrating
70.002 Baker's Yeast Manufacturing
70.003 Bread Bakeries
70.004 Cellulose Food Casing Manufacturing
70.005 Coffee Roasting
70.006 Cotton Ginning

70.007 Feed and Grain Handling, Storage & Processing (including Mills and Elevators)
70.009 Fish Processing
70.010 Fruit and Vegetable Processing
70.011 Meat Smokehouses
70.012 Roasting (except 70.005)
70.013 Starch Manufacturing
70.014 Sugar Cane Processing
70.015 Vegetable Oil Production
70.999 Other Food and Agricultural Products Sources

80.000 METALLURGICAL INDUSTRY

81.000 FERROUS METALS INDUSTRY

81.001 Coke By-product Plants
81.002 Coke Production (except 81.001)
81.003 Ferroalloy Production
81.004 Iron Foundries
81.005 Stainless Steel/Specialty Steel Manufacturing
81.006 Steel Foundries
81.007 Steel Manufacturing (except 81.005 & 81.006)
81.008 Steel Pickling - HCL Process
81.999 Other Ferrous Metals Industry Sources

82.000 NONFERROUS METALS INDUSTRY

82.016 Beryllium Processing and Manufacturing
82.001 Lead Acid Battery Manufacturing
82.002 Lead Acid Battery Reclamation
82.003 Lead Oxide and Pigment Production
82.004 Lead Products (except 82.001-002, 82.006 & 82.012)
82.005 Primary Aluminum Production
82.006 Primary Copper Smelting
82.007 Primary Lead Smelting
82.008 Primary Magnesium Refining

82.009 Primary Zinc Smelting
82.010 Secondary Aluminum Production
82.011 Secondary Brass & Brass Ingot Production
82.012 Secondary Copper Smelting & Alloying
82.013 Secondary Lead Smelting
82.014 Secondary Magnesium Smelting
82.015 Secondary Zinc Processing
82.999 Other Non-Ferrous Metals Industry Sources

90.000 MINERAL PRODUCTS

90.001 Alumina Processing
90.035 Asbestos Manufacturing
90.002 Asphalt/Coal Tar Application - Metal Pipes
90.003 Asphalt Concrete Manufacturing
90.004 Asphalt Processing (except 90.002, 90.003 & 90.034)
90.034 Asphalt Roofing Products Manufacturing
90.017 Calciners & Dryers and Mineral Processing Facilities
90.005 Calcium Carbide Manufacturing
90.006 Cement Manufacturing (except 90.028)
90.007 Chromium Refractories Production
90.008 Clay and Fly Ash Sintering
90.009 Clay Products (including Bricks & Ceramics)
90.010 Coal Conversion/Gasification
90.011 Coal Handling/Processing/Preparation/Cleaning
90.012 Concrete Batch Plants
90.013 Elemental Phosphorous Plants
90.014 Frit Manufacturing
90.015 Glass Fiber Manufacturing (except 90.033)
90.016 Glass Manufacturing
90.017 Calciners
90.018 Lead Ore Crushing and Grinding
90.019 Lime/Limestone Handling/Kilns/Storage/Manufacturing
90.020 Mercury Ore Processing
90.021 Metallic Mineral/Ore Processing (except 90.018, 90.020 & 90.031)
90.022 Mineral Wool Manufacturing
90.023 Mining Operations (except 90.032)
90.024 Non-metallic Mineral Processing (except 90.011, 90.019, 90.017, 90.026) (NOTE: This

category includes stone quarrying, sand and gravel processing, gypsum processing, perlite processing and all other non-metallic mineral/ore processing.)
90.026 Phosphate Rock Processing
90.027 Phosphogypsum Stacks
90.028 Portland Cement Manufacturing
90.029 Refractories
90.031 Taconite Iron Ore Processing
90.032 Underground Uranium Mines
90.033 Wool Fiberglass Manufacturing
90.999 Other Mineral Processing Sources

99.000 MISCELLANEOUS SOURCES

99.001 Abrasive Blasting
99.002 Chromic Acid Anodizing
99.003 Comfort Cooling Towers
99.004 Commercial Sterilization Facilities
99.005 Decorative Chromium Electroplating
99.006 Electronics Manufacturing (except 99.011)
99.013 Electroplating/Plating (except Chrome - 99.002, 99.005 & 99.007)
99.019 Geothermal Power
99.007 Hard Chromium Electroplating
99.008 Hospital Sterilization Facilities
99.009 Industrial Process Cooling Towers
99.017 Leather Tanning
99.014 Polystyrene Foam Products Manufacturing
99.016 Polyurethane Foam Products Manufacturing
99.020 Rocket Demilitarization
99.010 Rocket Engine Test Firing
99.015 Rubber Tire Manufacturing and Retreading
99.011 Semiconductor Manufacturing
99.018 Synthetic Fuels Production (except 70.016 & 90.010)
99.012 Welding & Grinding
99.999 Other Miscellaneous Sources

CODE PROCESS TYPE

ARCHIVED CODES:

11.000 EXTERNAL COMBUSTION

11.001 Bagasses Combustion
11.002 Coal Combustion
11.006 Fuel Oil Combustion
11.003 Lignite Combustion
11.004 Multiple Fuels Combustion
11.005 Natural Gas Combustion
11.007 Waste Oil Combustion
11.008 Wood/Wood Waste Combustion
11.999 Other External Combustion Sources

15.000 INTERNAL COMBUSTION

15.001 Aviation Fuels
15.002 Diesel Fuel
15.006 Fuel Oil
15.003 Gasoline
15.007 Multiple Fuels
15.004 Natural Gas
15.005 Process Gas
15.999 Other Internal Combustion Sources

APPENDIX D
ABBREVIATIONS FOR PROCESSES, UNITS, AND POLLUTANTS

This page has been intentionally left blank.

Appendix D -- Abbreviations for Processes, Units, and Pollutants

Abbreviations for Processes and Descriptors

Abbreviation	Process or Descriptor
ADD	additive
AL	aluminum
AM	American
ASSOC	association
ATMOS	atmospheric
CALC	catalytic
CEM	continuous emission monitoring
CO	company
COLL	collection
COOP	cooperative
CORP	corporation
DECARB	decarbonization
DESULF	desulfurization
DISTIL	distillation
DISTN	distribution
DIV	division
E	eastern
EA	each
EFF	efficiency
ELECT	electric
EMISS	emissions
ENVIRON OR ENV	environmental
ESP	electrostatic precipitator
FAC	facility
FCC	fluid catalytic cracking
FCCU	fluid catalytic cracking unit
FGR	flue gas recirculation
FURN	furnace
GEN	generator
HAND	handling
HRSG	heat recovery steam generator
HVLP	high-volume, low pressure (spray guns)
I.C.	internal combustion
INCIN	incinerator
INDEP	independent
INTERNAT	international
LAB	laboratory
LDOUT	loadout

Abbreviation	Process or Descriptor
LIQ	liquid
LT	light
MATL	material
MFG	manufacturing
MISC	miscellaneous
MODIF	modification
NAT	natural
NATL	national
POLL	pollutant/pollution
PREP	preparation
PROD	production
PWR	power
REC	recovery
RECIP	reciprocating
RECLAM	reclamation
REFIG	refrigeration
REFIN	refinery
REG	regular
REGEN	regenerator
RESID	residual
ROT	rotary
SCR	selective catalytic reduction
SCRUB	scrubber
SECOND	secondary
SHIP	shipping
SNCR	selective non-catalytic reduction
SOLN	solution
STOR	storage
SUP	supplementary
SYS	system
TRANS	transmission
UNIV	university
VAC	vacuum
VERT	vertical

Abbreviations for Emission Limit Units

Abbreviation	Emission Limit Unit
ACF	actual cubic feet
ACFM	actual cubic feet per minute
ACS	applied coating solids
ADP	air dried pulp
ADTP	air dried tons product
ADTFP	air dried tons of final product
ADTUBP	air dried tons of unbleached pulp
ADUP	air dried unbleached pulp
AMP-H	ampere hours
AV	average
BBL	barrels
BF	board feet
BHP	brake horsepower
BLS	black liquor solids
BPSD	barrels per stream day
BTU	British thermal units
CF	cubic feet
CFM	cubic feet per minute
CUYD	cubic yard
D	day
DFEED	dry feed
DACF	dry actual cubic feet
DIST	distillate
DSCF	dry standard cubic feet
F	feet
G	gram
G/B-HP-H	grams per brake horsepower-hour
G/HP-H	grams per horsepower-hour
G/O	gas/oil
GAL	gallon
GAL/M	gallons per minute
GIGA	giga- *(10^9 prefix)*
GR	grains
H	hour
HP	horsepower
J	joule
KG	kilogram
KW	kilowatt
L	liter
LB	pound
LT	long ton

Abbreviation	Emission Limit Unit
M	thousand (10^3)
MI	miles
MIN	minute
MG/L	milligram per liter
MM	million (10^6)
MO	month
MW	megawatt
UG	microgram (10^{-6})
N	natural
NG	nanogram (10^{-9})
OPAC	opacity
PPM	parts per million
PPH	parts per hundred
%	percent
% BY VOL	% by volume
% BY WT	% by weight
RDF	refuse derived fuel
RESID	residual
SB	subbituminous
SCF	standard cubic feet
SCFD	standard cubic feet per day
SCFH	standard cubic feet per hour
SCFM	standard cubic feet per minute
SEC	second
SQF	square feet
T	ton
T/D	tons per day
T/H	tons per hour
T/YR	tons per year
TONNE	metric tonne
VOL	volume
WKS	weeks
YD	yard
YR	year

Abbreviations for Pollutants

Abbreviation	Pollutant
AG	silver
AN	acrylonitrile
AR	argon
AS	arsenic
BA	barium
BAP	benzo(a)pyrene
BE	beryllium
CA	calcium
CD	cadmium
CDD	chlorodibenzodioxins
CDF	chlorodibenzofurans
CL	chlorine
CL2	chlorine (gas)
CL2/OCL	chlorine and oxychlorine
CLO2	chlorine dioxide
CO	carbon monoxide
CO2	carbon dioxide
COS	carbonyl sulfide
CR	chromium
CRVI	hexavalent chrome
CS	cesium
CU	copper
DCB	1,4-dichloro-2-butene
ETH	ethylene
ETO	ethylene oxide
F	fluorine
TF	fluorides, total
FSP	fine suspended particulates
HBR	hydrogen bromide
HC	hydrocarbons
HCL	hydrochloric acid
HCN	hydrogen cyanide
HDM	hexamethylene diisocyanate monomer
HF	hydrogen fluoride
HG	mercury
HHD	homopolymer of HDM (see above)
H2O	water
H2S	hydrogen sulfide
H2SO4	sulfuric acid
H2SO4 mist	sulfuric acid mist (also referred to as SAM)
MA	maleic anhydride

Abbreviation	Pollutant
MC ACETATE	methyl cellusolve acetate
MEK	methyl ethyl ketone
MG	magnesium
MI KETONE	methyl isobutyl ketone
MMH	methyl hydrazine
MN	manganese
MO	molybdenum
NAOH	sodium hydroxide
NA2SO4	salt cake
NH3	ammonia
NH4	ammonium
NH4CL	ammonium chloride
NI	nickel
NMHC	nonmethane hydrocarbons
NMOC	nonmethane organic carbon
NOX	nitrogen oxide
NO2	nitrogen dioxide
N2O	nitrous oxide
PAH	polynuclear aromatic hydrocarbons
PB	lead
PCB	polychlorinated biphenyls
PCDF	polychlorinated dibenzo furans
PCNB	pentochloronitrobenzene herbicide
PM, PM10	particulate matter
POCL3	phosphorous oxychloride
POHC	principle organic hazardous constituents
RHC	reactive hydrocarbons
ROC	reactive organic compounds
ROG	reactive organic gases
RSC	reduced sulfur compounds
S	sulfur
SB	antimony
SE	selenium
SN	tin
SO2	sulfur dioxide
SO3	sulfur trioxide
TCDD	2,3,7,8-tetrachlorodibenzo-P-dioxin
TCDF	tetrachlorodibenzo furan
TCE	trichloroethylene
TC-ETHANE	1,1,1-trichloroethane
TF	Total Fluorides
TICL4	titanium tetrachloride
TMT	tetramethyl tin

Abbreviation	Pollutant
TRS	total reduced sulfur
U	uranium
UF4	uranium tetrafluoride
V	vanadium
VC	vinyl chloride
VCM	vinyl chloride monomer
VE	visible emissions
VOC	volatile organic compounds
ZN	zinc
ZRSO4	zirconium sulfate

Pollutant Name and CAS Number

See also the previous table, Abbreviations for Pollutants

POLLUTANT	ALTERNATE NAME	CAS NUMBER
1,1,1 TRICHLOROETHANE		71-55-6
2,3,7,8 TCDD	2,3,7,8-tetrachlorodibenzo-P-dioxin	1746-01-6
2-BUTANONE		78-93-3
ACETONE		67-64-1
ACRYLAMIDE		79-06-1
ACRYLAMIDE MONOMER		79-06-1
ACRYLIC ACID		79-10-7
ACRYLONITRILE		107-13-1
AG	Silver	7440-22-4
ALUMINUM OXIDE		1344-28-1
AMMONIA		7664-41-7
AN	Acrylonitrile	107-13-1
AR	Argon	13994-71-3
ARGON		13994-71-3
AS	Arsenic	7440-38-2
ASBESTOS		1332-21-4
BA	Barium	7440-39-3
BAP	Benzo(a)pyrene	50-32-8
BE	Beryllium	7440-41-7
BENZENE		71-43-2
BENZO-A-PYRENE		50-32-8
BENZOTRICHLORIDE		98-07-7
BENZYL CHLORIDE		100-44-7
BR	Bromine	7726-95-6
BUTYL ACETATE		123-86-4
BZ	Benzene	71-43-2
CA	Calcium	7440-70-2
CALCIUM HYDROXIDE		1035-62-0
CAPROLACTAM		105-60-2
CARBON BLACK		1333-86-4
CARBON TETRACHLORIDE		56-23-5
CCL2F2	Dichlorodifluoromethane	75-71-8
CD	Cadmium	7440-43-9
CHCL3	Chloroform	67-66-3
CHLORINE		7782-50-5
CHLORINE DIOXIDE		10049-04-4
CHLOROFORM		67-66-3
CHROME	Chromium	7440-47-3
CHROMIC ACID		1333-82-0

CL	Chlorine	7782-50-5
CL2	Chlorine (gas)	10049-04-4
CO	Carbon Monoxide	630-08-0
CO2	Carbon Dioxide	124-38-9
COBALT		7440-48-4
CR	Chromium	7440-47-3
CRO3	Chromium Trioxide	1333-82-0
CS	Cesium	7440-46-2
CU	Copper	7440-50-8
DCB	1,4-dichloro-2-butene	764-41-0
DCB		25321-22-6
DIBUTYL PHTHALATE		84-72-2
DIISOBUTYL KETONE		108-83-8
DIMETHYL ACETAMIDE		127-19-5
DIMETHYL FORMAMIDE		68-12-2
DIOXINS		SEQ. 128
ETHYL ACETATE		141-78-6
ETHYL ALCOHOL		64-17-5
ETHYL BENZENE		100-41-4
ETHYLBENZENE		100-41-4
ETHYLENE GLYCOL		107-21-1
ETHYLENE OXIDE		75-21-8
ETO	Ethylene Oxide	75-21-8
F	Fluorine	7782-41-4
FLUORIDE		16984-48-8
FLUORIDES		16984-48-8
FORMALDEHYDE		50-00-0
FREON 12		75-71-8
GRAPHITE		7782-42-5
H2O	Water	7732-18-5
H2S	Hydrogen Sulfide	7783-06-4
H2SO4	Sulfuric Acid	7664-93-9
H2SO4 MIST		7664-93-9
H2SO4 VAPORS		7664-93-9
HBR	Hydrogen Bromide	10035-10-6
HC		SEQ. 11
HCL	Hydrochloric Acid	7647-01-0
HCN	Hydrogen Cyanide	7490-8
HEPTANE		142-82-5
HF	Hydrogen Fluoride	7664-39-3
HG	Mercury	7439-97-6
HYDRAZINE		302-01-2
HYDROGEN PEROXIDE		7722-84-1
ISOOCTYL ALCOHOL		52738-99-5

ISOPROPYL ACETATE		94-11-1
ISOPROPYL ALCOHOL		67-63-0
MAGNESIUM		7439-95-4
MALEIC ANHYDRIDE		108-31-6
MEK	Methyl Ethyl Ketone	78-93-3
MEK-PEROXIDE	Methyl Ethyl Ketone Peroxide	1338-23-4
METHACRYLIC ACID		79-41-4
METHANE		74-82-8
METHANOL		67-56-1
METHYL AMYL KETONE		110-43-0
METHYL BROMIDE		74-83-9
METHYL ETHYL KETONE		78-93-3
METHYL ISOBUTYL KETONE		108-10-1
METHYLENE CHORIDE		75-09-2
MG	Magnesium	7439-95-4
MINERAL SPIRITS		64475-85-0
MMH	Methyl Hydrazine	60-34-4
MN	Manganese	7439-96-5
MO	Molybdenum	7439-98-7
N-BUTYL ACETATE		123-86-4
N-BUTYL ALCOHOL		71-36-3
N-PROPYL ACETATE		109-60-4
N2O	Nitrous Oxide	10024-97-2
NAOH	Sodium Hydroxide	1310-73-2
NAPHTHALENE		91-20-3
NH3	Ammonia	7664-41-7
NH4	Ammonium	14798-03-9
NH4CL	Ammonium Chloride	12125-02-5
NI	Nickel	7440-02-0
NICKEL		7440-02-0
NITRIC ACID		7697-37-2
NO2	Nitrogen Dioxide	10102-44-0
P-TOLUIDINE		106-49-0
PAH	Polynuclear Aromatic Hydrocarbons	SEQ. 6
PB	Lead	7439-92-1
PCB	Polychlorinated Biphenyls	1336-36-3
PERCHLOROETHYLENE		127-18-4
PHENOL		108-95-2
PHOSPHORIC ACID		7664-38-2
PHOSPHOROUS		7723-14-0
POCL3	Phosphorous Oxychloride	10025-87-3
POTASSIUM HYDROXIDE		1310-58-3
PROPYLENE OXIDE		75-56-9
S	Sulfur	7704-34-9

SB	Antimony	7440-36-0
SE	Selenium	7782-49-2
SILVER		7440-22-4
SN	Tin	7440-31-5
SO2	Sulfur Dioxide	7446-09-5
SO3	Sulfur Trioxide	7446-11-9
SODIUM BICHROMATE		10588-01-9
STRONTIUM CHROMATE		7789-06-2
STYRENE		100-42-5
SULFATES		14808-79-8
SULFURIC ACID		7664-93-9
SULFURIC ACID MIST		7664-93-9
TCDD	2,3,7,8-tetrachlorodibenzo-P-dioxin	1746-01-6
TICL4	Titanium Tetrachloride	7550-45-0
TITANIUM DIOXIDE		13463-67-7
TL	Thallium	7440-28-0
TOLUENE		108-88-3
TRICHLOROETHYLENE		79-01-6
TRIETHYLAMINE		121-44-8
U	Uranium	7440-61-1
UF4	Uranium Tetrafluoride	10049-14-6
URANIUM		7440-61-1
V	Vanadium	7440-62-2
XYLENE		1330-20-7
XYLENES		1330-20-7
ZINC		7440-66-6
ZINC CHROMATE		13530-65-9
ZN	Zinc	7440-66-6

Basis for Limit

BACT-PSD	Prevention of Significant Deterioration
BACT-Other	Other (i.e., T-BACT, Toxics-BACT, etc)
LAER	Lowest Available Control Technology
MACT	Maximum Achievable Control Technology
RACT	Reasonably Available Control Technology
GACT	Generally Available Control Technology
NSPS	New Source Performance Standards
NESHAPS	National Emission Standards for Hazardous Air Pollutants
OTHER	Other Control Technology Standards

Emission Type

Point, Fugitive, or Area Source

APPENDIX E
RBLC STANDARD EMISSION UNITS BY PROCESS TYPE CODE

This page has been intentionally left blank.

Appendix E --RBLC Standard Emission Units by Process Type Code

Standard emission units have been established for the processes listed below. These units are required for reporting standardized emission limits in the RBLC data base for these processes. Standardization of emission units facilitates ranking of emission control requirements on a pollutant specific basis. For visible emissions (VE), percent (%) opacity has been established as the standardized unit for all processes

Clearinghouse Process Code	**/ Name or Description**	**Pollutant**	**Required Emission Units**
ALL	All Processes with Emission Limits for Visible Emissions	Visible Emissions	% Opacity
11.001 - 14.999	Electric Utility Steam Generators, Fossil Fuel-fired Steam Generators, Boilers, Furnaces, & Process Heaters	PM, PM10, PM2.5, SOx, NOx, CO	LB/MMBTU
15.001 - 19.999	I. C. Engines	NOx, CO	G/B-HP-H
	Stationary Gas Turbines	NOx, CO	PPM @ 15% O_2
21.001	Municipal Waste Incinerators	PM, PM10, PM2.5 & Metals (CD, PB, HG)	GR/DSCF @ 7% O_2
		SO2, HCL, CO, & NOx	PPM @ 7% O_2
21.004	Sewage Sludge Incineration	PM, PM10 & PM2.5	LB/T of dry sludge input
30.002	Kraft Pulp Mills - Recovery Furnace	PM, PM10 & PM2.5	GR/DSCF @ 8% O_2
	Kraft Pulp Mills - Lime Kiln	PM, PM10 & PM2.5	GR/DSCF @ 10% O_2
	Kraft Pulp Mills - Smelt Dissolving Tanks	PM, PM10 & PM2.5	LB/T BLS
	Kraft Pulp Mills - Digesters, Brown Stock Washers, Evaporators, Oxidation, & Stripping System	TRS	PPMV @ 10% O_2
41.002	Auto & Light Truck Surface Coating	VOC	LB/GAL ACS
41.004	Can Surface Coating	VOC	LB/GAL ACS

Clearinghouse Process Code	/ Name or Description	Pollutant	Required Emission Units
41.007	Flexible Vinyl & Urethane Coating and Printing	VOC	LB/LB ink solids
41.008	Large Appliance Surface Coating	VOC	LB/GAL ACS
41.011	Metal Coil Surface Coating	VOC	LB/GAL ACS
41.012	Metal Furniture Surface Coating	VOC	LB/GAL ACS
41.015	Plastic Parts for Business Machines Surface Coating	VOC	LB/GAL ACS
41.018	Pressure Sensitive Tape & Label Surface Coating	VOC	LB/LB ACS
50.003	Petroleum Refining - Cracking	PM, PM10 & PM2.5, SOx CO	LB/1000 LB PPMV
50.006	Petroleum Refining - Claus Sulfur Recovery Units	SOx, TRS, H_2S	PPMV @ 0% Excess Air
61.009	Phosphate Fertilizers Production	Total Fluoride	LB/T
62.001	Ammonium Sulfate Production	PM, PM10 & PM2.5	LB/T ammonium sulfate pdtn.
62.014	Nitric Acid Plants	NOX	LB/T of Acid Produced (100% acid)
62.015	Sulfuric Acid Plants	SO_2 & Acid Mist	LB/T
65.001 - 65.999	Synthetic Fibers Production	VOC	LB/1000 LB solvent feed
70.007	Grain Elevators	PM, PM10 & PM2.5	GR/DSCF
81.003	Ferroalloy Production	PM, PM10 & PM2.5 CO	LB/MW-H % (volume basis)
81.004	Iron Foundries	PM, PM10 & PM2.5	GR/DSCF

Clearinghouse Process Code	/ Name or Description	Pollutant	Required Emission Units
81.005 - 81.007	Electric Arc Furnaces (EAF) & Argon-Oxygen Decarburlization (AOD) Furnaces at Stainless/Specialty Steel Plants Steel Foundries, & Steel Manufacturing plants	PM, PM10 & PM2.5	GR/DSCF
82.001	Lead Acid Battery Mfg. All Lead Emitting Operations	Pb (Lead)	GR/DSCF
82.005	Primary Aluminum Production	Total Fluorides	LB/T
82.006	Primary Copper Smelters	PM, PM10 & PM2.5	GR/DSCF
82.007	Primary Lead Smelting	PM, PM10 & PM2.5	GR/DSCF
82.009	Primary Zinc Smelting	PM, PM10 & PM2.5	GR/DSCF
82.011	Secondary Brass & Brass Ingot Production	PM, PM10 & PM2.5	GR/DSCF
82.013	Secondary Lead Smelting	PM, PM10 & PM2.5	GR/DSCF
90.004	Hot-Mix Asphalt Processing	PM, PM10 & PM2.5	GR/DSCF
90.011	Coal Handling/Processing/ Preparation/Cleaning	PM, PM10 & PM2.5	GR/DSCF
90.016	Glass Manufacturing Furnace	PM, PM10 & PM2.5	LB/T
90.019	Lime/Limestone Handling/Kilns/ Storage/Manufacturing.	PM, PM10 & PM2.5	LB/T
90.021	Metallic Mineral/Ore Processing	PM, PM10 & PM2.5	GR/DSCF
90.024	Non-metallic Mineral Processing	PM, PM10 & PM2.5	GR/DSCF
90.026	Phosphate Rock Processing	PM, PM10 & PM2.5	LB/T
90.028	Portland Cement Plants - kiln, in-line raw mill and kiln, clinker cooler	PM, PM10 & PM2.5	LB/T
90.033	Wool Fiberglass Manufacturing	PM, PM10 & PM2.5	LB/T glass pulled

Clearinghouse Process Code	/ Name or Description	Pollutant	Required Emission Units
90.034	Asphalt Roofing Products Manufacturing	PM, PM10 & PM2.5	LB/1000 LB
99.015	Rubber Tire Manufacturing Industry - Tread End Cementing, Water-Based Inside Green Tire Spray, & Water-Based Outside Green Tire Spray	VOC	G/TIRE/MO
	Bead Cementing	VOC	G/Bead/MO
	Organic Green Tire Spray, Michelin A Operations, Michelin B Operations Michelin C Operations, Sidewall Cementing, & Undertread Cementing	VOC	% Reduction